FEB 2 7 2002 88

SEQUENCE LISTING

 $\!\!<\!\!120\!\!>\!\!N_{\rm e}\!\!>\!\!N_{\rm e}\!\!>\!\!$ Nevel genes of Candida albicans and the proteins coded by these genes

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<150> FR 9907250

<151> 1999-06-09

<150> PCT/FR00/01567

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ata gga cca ata tca aat act att atc cta gaa tct tca ctg gta tta — 144 Ile Gly Pro Ile Ser Asn Thr Ile Thr Leu Glu Ser Ser Leu Val Leu 35 — 40 — 45

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					gat Asp				-							336
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		_		_	gag Glu		_		_	_	_					432
					aaa Lys 150							_		_		480
_		_		_	ttg Leu											528
					ttt Phe		-			_	-					576
					gtt											624
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cta aga get atg atc aac gaa egt atg get eeg gaa tta ttg eea tac Leu Arg Ala Met Ile Asn Glu Arg Met Ala Pro Glu Leu Leu Pro Tyr 35 40 45	144
aaa daa gat tta atg too act gtt tta aca atg atg tot aad daa caa Lys Gln Asp Leu Met Ser Thr Val Leu Thr Met Met Ser Asn Gln Gln 50 55 60	192
daa tat tta tta gaa tot oac gaa tat ggt gat atg aat ggc gac agt Gln Tyr Leu Leu Glu Ser His Glu Tyr Gly Asp Met Asn Gly Asp Ser 65 70 75 80	240
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gat tta gag egt ete aac tat att gtt ega tta tac ata ega act ega Asp Leu Glu Arg Leu Asn Tyr Ile Val Arg Leu Tyr Ile Arg Thr Arg 100 105 110	335
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Gaa aat gat aat tta ttg tcc aaa gag gaa aga gat tat ata cac aaa Gln Asn Asp Asn Leu Leu Ser Lys Glu Glu Arg Asp Tyr Ile His Lys 130 135 140	432

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Tyr 145	Phe	Gln	Tle	Leu	Thr 150	Glr.	Leu	Tyr	Asr.	Asn 155	Cys	Phe	Leu	Lys	Lys 160
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Leu	Glu	Val 195	Pro	Iî.e	Leu	leu	Asp 200	Tyr	Asp	Gly		Thr 205	Glu	Ile	Asp
Leu	Glu 210	Leu	Ile	-	Lys	_	Val	Tyr	Val	Val	Lys 2::0	Tyr	Ser	Leu	Val
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tta aaa gaa aag aaa gto toa aga tgg agg caa aag caa caa cag gaa — 144 Leu Lys Glu Lys Lys Val Ser Arg Trp Arg Gln Lys Gln Gln Glu 35 — 40 — 45

cag age aca act tee eea aaa act act gaa atc egt tea gag get tee 192
Gin Ser Thr Thr Ser Pro Lys Thr Thr Glu Ile Arg Ser Glu Ala Ser
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gag att tig daa gag ogt gag gag tia dia aag ggt tia gat oot aaa - 288

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-				Gly gga	-			_								6214
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Lys	Tyr 370	Ser	Tie	Leu		Lys 375				Asp	Asp 380	Gln	Ser	Phe	Thr
Asp 345	314	lle	Lys		leu 390			_			Asp		Met	Trp	Asp 400
Leu	Ile	Asp	Gln	Leu 405		Ile				Ile	Thr	Glu	Ala	Ala 415	Asp
Glu	Lys	Lys							Arg				Ile 430	Glu	Ala
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Lys Ile His Gln Glu Asn Ile Glu Lys Met Ala Gln Met Ser Glu Glu 65 70 75 80

Glu Ile Leu Glm Glu Arg Glu Glu Leu Leu Lys Gly Leu Asp Pro Lys 85 90 95

Leu Ile Glu Ser Leu Ilo Gly Arg Ser Lys Lys Arg Glu Ala Thr Asp 100 105 110

His Glu His Asn Gly His Ala His Glu His Ala Glu Gly Tyr His Gly
115 120 125

Trp Ile Gly Ser Met Lys Thr Ser Glu Gly Leu Thr Asp Leu Ser Gln 130 135 140

Leu Asp Lys Glu Asp Val Asp Arg Ala Leu Gly Ile Ser Ser Leu Ser 145 150 155 160

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Pro Asn Asn Asp His Ile Ala Pro Asp Asp Tyr Gln Ile Asn Pro Asp

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					ata Ile											2016
					caa Gln											2064
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Gin F Gin F Asn G Ser S 65 Val A Ala A Asp M	Pro Slu 50 Ser Asp Ala Met	Leu 35 Leu Ser Lys Gln Tyr	20 Thr Glu Thr Asn Lys 100 Ile	Gly Ile Pro Gln Glu 85 Ala Pro	Tyr Ser Gln 70 Glu Leu Thr	Lys Gln 55 Pro Glu Leu Pro	Glm 40 Val Arg Glu Gly Asp 120	25 Arg His Asp Val Ser 105 Ala	GIn Asp His Leu His 90 Lys Ser	Arg Leu His 75 Leu Lys Arg	Pro Asn 60 Ala Gln Glu	Thr 45 Ser Val Gln Glu Trp 125	Ser 30 Leu Asn Glu Val Lys 110 Pro	15 Val Asp Ala Thr Ile 95 Ser Glu	Lys Ser Ser Gly 80 Asn Ser	
Gin F Gin F Asn G Ser S 65 Val A Ala A Asp M	Pro Slu 50 Ser Asp Ala Met	Leu 35 Leu Ser Lys Gln Tyr 115	20 Thr Glu Thr Asn Lys 100 Ile	Gly Ile Pro Gln Glu 85 Ala Pro Lys	Tyr Ser Gln 70 Glu Leu Thr Asp	Lys Gln 55 Pro Glu Leu Pro Gln 135	Glm 40 Val Arg Glu Gly Asp 120 Lys	25 Arg His Asp Val Ser 105 Ala	GIn Asp His Leu His 90 Lys Ser Lys	Arg Leu His 75 Leu Lys Arg Gln	Pro Asn 60 Ala Gln Glu Ile Pro 140	Thr 45 Ser Val Glu Trp 125 Glu	Ser 30 Leu Asn Glu Val Lys 110 Pro	15 Val Asp Ala Thr Ile 95 Ser Glu Tyr	Lys Ser Ser Gly 80 Asn Ser Ala Ile	
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Gin H Gin H Asn G Ser S 65 Val A Ala A Asp M His I	Pro Slu 50 Ser Asp Ala Met	Leu 35 Leu Ser Lys Gln Tyr 115 Tyr	20 Thr Glu Thr Asn Lys 100 Ile Tyr	Gly Ile Pro Gln Glu 85 Ala Pro Lys Thr	Tyr Ser Gln 70 Glu Leu Thr Asp Val 150	Lys Gln 55 Pro Glu Leu Pro Gln 135 Glu	Glm 40 Val Arg Glu Gly Asp 120 Lys	25 Arg His Asp Val Ser 105 Ala Phe	GIn Asp His Leu His 90 Lys Ser Lys Val	Arg Leu His 75 Leu Lys Arg Gln Gly 155	Pro Asn 60 Ala Gln Glu Ile Pro 140 Val	Thr 45 Ser Val Glu Trp 125 Glu Glu	Ser 30 Leu Asn Glu Val Lys 110 Pro Thr	15 Val Asp Ala Thr Ile 95 Ser Glu Tyr Asn	Lys Ser Ser Gly 90 Asn Ser Ala Ile Met 160	

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Arg	Gln 210	Pro	Phe	Leu	Ser	Met 215	Asp	Pro	Ser	Asn	Ile 220	Leu	Ser	Tyr	Glu
Glu 225	Leu	Ser	Ser	Tyr	Ile 23)	Val	Asp	Glr.	Phe	Lys 235	Ser	Ala	Val	Lys	Thr 240
Ser	Asn	Pro	Tyr	Ile 245	Val	Thr	Asr.	Gly	Gly 250	Asn	Leu	Glu	Тут	11e 255	Ser
Thr	Thr	Ala	Leu 260	Lys	Glu	Arg	Leu	Ser 265	Lys	Glu	Ile	Lys	Tyr 270	Glu	Pro
Pne	7al	Thr 275	I.e	Phe	Asp	Lys	Asn 230	Glr	Met.	Ser	Thr	Ser 235	Ala	Val	Arg
Pro	Ile 290	Pro	Lys	Leu	Ph€	Glu 295	Leu	Phe	Gly	Arg	Pro 300	7al	Tyr	Asp	His
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Pro	Tyr	Ile	Cys	Phe	Arg	Arg	Arg	Glu 345	Phe	Arg	Gln	Ala	Arg 350	Lys	Thr
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Ser	Leu 370		Arg	Ala	Arg	Asp 375		Ile	Met	Ser	7al 380		Glu	Arg	GI u
Ile 385	Leu	Lys	Leu	Asp	Asn		Gln	Ala	Glu	His	Glu	Leu	Phe	Lys	Ala 400
	Cys	Ala	Thr	Lys 405	Ala	Cys	Lys	Arg	G19 410	Leu	Asn	Ile	Lys	Gly 415	Asp
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Lei	Vāl	Thr	Val 500		Leu	Val	Leu	Lys 505	Glu	Lys	Asn	Glu	Thr 510	Ile	Lys
Arg	Ala	Val 515		Glu	Lys	Leu	Arg 520	Lys	Arg	L''S	Glu	His 525	Asp	Lys	G.72.
Phe	Ile 530		Lea	Thr	Asp	Asp 535		Tyr	Gln	Pro	Phe 540	Phe	Asp	Ile	Ser
Thr		Arg	ALa	Glu	Glu 550		Ser	His	Ile	Pro 555		Ser	Ser	Ile	Ala 560
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leu lys lys Leu	Leu Glu Glu	Lys Lys Pr	ro Leu Pro Gly	Val Lys Thr
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Phe Let Gly Ser	Asn Gly Glu			Phe Pro His
595	real at at	500	605	
Leu Leu Ser Leu 610	Leu Glu Glu 615	Lys lyr L	ys Ala inn Ser 620	GIY :Yr lle
Glu Arg Deu Leu		Gin Thr G		Ser Tur Thr
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Ash Gly Phe Lys	Asp Val Glu	Pro Lys Gi	lu Thr Asn Glu	Pro Val Met
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Ala Phe Pro Gln	Arg Ile Arg	Arg Arg Va	al Gly Arg Ala	Gly Arg Val
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Phe Leu Asp His	Glr. Gln Glu			Gln Gln Asp
675	alv alv tla	680	685	Oly ion ile
Thr Asp Arg Val 690	695	Pro Asp V	700	GIU ASP AIA
Ile Lys Arg Leu		Tro Lvs Pl		Tyr Lys Thr
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20

3.5

96

144

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ata gat daa tat aat aac tot tot toa oft ogg a Ile Asp Gln Tyr Asn Asn Ser Ser Ser Leu Arg A 65 70 75)
tig gas gat att atg gea caa att tet ata acg a Leu Gli Asp Ile Met Ala Gln Ile Ser Ile Thr A 85 90		3
git gas gat tat gaa aaa aat att aaa aag gca a Val Gl: Asp Tyr Glu Lys Asn Ile Lys Lys Ala A 100 105		5
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aat tig gig aaa gaa gia ggi gga act tia caa g Asn Leu Val Lys Glu Val Gly Gly Thr Leu Gln V 130 135		2
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Tyr Let Glu Gly Lys Glu Tyr Gly Tyr Gln Thr C	3 C	
Tyr Let Glu Gly Lys Glu Tyr Gly Tyr Gln Thr (30 Gly Phe Gln Arg Phe 45	
Tyr Let Glu Gly Lys Glu Tyr Gly Tyr Gln Thr G 35 40 Leu Ile Ile Gly Tyr Ile Gln Glu Leu Met Lys E	30 Gly Phe Gln Arg Phe 45 Phe Trp Leu Ser His 60	

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_			_	acc Thr 150										480
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act														912

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His	Glu	Lys	Glu	Ser	Asn	Arg	Lys	Lys	Lys	Asn	Lys	Asn	Lys	Lys	Lys	
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Lys	Leu	Ala	Asn	Asr. 245	Glu	2ro	Lys	Pro	11e 250	Glu	Met	Asp	Tyr	Phe 255	His	
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Leu Glu Asp Gln Ile Leu Glu Ser Asn Thr Gln Phe Lys Gly Ile Phe

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374

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